



**NEW ENGLAND
COMMON ASSESSMENT PROGRAM**

**Released Items
2010**

**Grade 4
Mathematics**

Mathematics



Items with this symbol were selected from Session One—no calculators or other mathematics tools allowed.



1 What is $5 \text{ hundreds} + 18 \text{ tens} + 3 \text{ ones}$?

- ☐ A. 583
- ☐ B. 683
- ☐ C. 5183
- ☐ D. 6183

2 You may use this model to help answer the question.

1							
$\frac{1}{2}$				$\frac{1}{2}$			
$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$			
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

Which list shows the fractions in order from **least** to **greatest**?

- ☐ A. $\frac{1}{3}$, $\frac{5}{6}$, $\frac{2}{8}$
- ☐ B. $\frac{2}{8}$, $\frac{1}{3}$, $\frac{5}{6}$
- ☐ C. $\frac{1}{3}$, $\frac{2}{8}$, $\frac{5}{6}$
- ☐ D. $\frac{2}{8}$, $\frac{5}{6}$, $\frac{1}{3}$

- 3 Mrs. Watson bought three different-sized cups for a snack bar. She bought

- 225 large cups,
- 500 more medium cups than large cups, and
- more small cups than medium cups.

Which could be the number of small cups Mrs. Watson bought?

- ☐ A. 275
- ☐ B. 450
- ☐ C. 725
- ☐ D. 850



- 4 Juliet solved this problem.

$$28 + 16 = 44$$

Which number sentence can Juliet use to check her work?

- ☐ A. $28 - 16 = \square$
- ☐ B. $28 + 44 = \square$
- ☐ C. $44 + 16 = \square$
- ☐ D. $44 - 28 = \square$



- 5 Alex bought 4 boxes of pencils. There were 12 pencils in each box. He wrote this number sentence to show how many pencils he bought.

$$12 + 12 + 12 + 12 = \square$$

Which number sentence also shows how many pencils Alex bought?

- ☐ A. $12 \div 4 = \square$
- ☐ B. $12 - 4 = \square$
- ☐ C. $4 + 12 = \square$
- ☐ D. $4 \times 12 = \square$



- 6 Mitch has \$5.15 in his backpack and \$2.30 in his pocket. How much more money does Mitch have in his backpack than in his pocket?

- ☐ A. \$2.75
- ☐ B. \$2.85
- ☐ C. \$3.25
- ☐ D. \$3.85



- 7 Scott's father is 26 years older than Scott. Scott's grandfather is 35 years older than Scott's father. Scott's grandfather is 72 years old. How old is Scott?

- ☐ A. 11 years old
- ☐ B. 13 years old
- ☐ C. 21 years old
- ☐ D. 37 years old

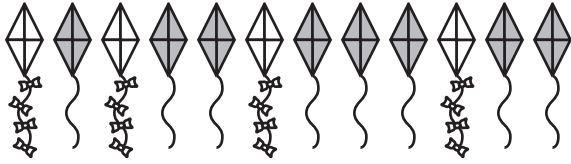
- 8 This clock shows the time music class starts.



Music class is 40 minutes long. What time will music class end?

- ☐ A. 12:30
- ☐ B. 11:35
- ☐ C. 11:30
- ☐ D. 10:50

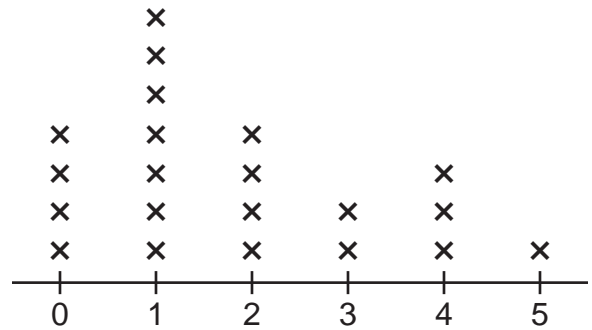
- 9 This pattern of kites is a growing pattern.



What are the next three kites in this pattern?

- ☐ A.
- ☐ B.
- ☐ C.
- ☐ D.

- 10 This line plot shows the numbers of cousins the students in Mr. Durant's class have.





Key
x represents 1 student

What is the least frequent number of cousins the students in the class have?

- ☐ A. 0
- ☐ B. 1
- ☐ C. 4
- ☐ D. 5




11 Madeline used blocks to show the number 52. She used

- 12  and
- some .

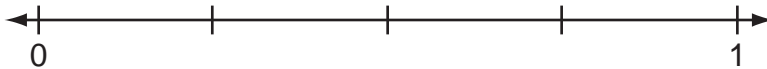
Key

 represents 1

How many  did Madeline use?



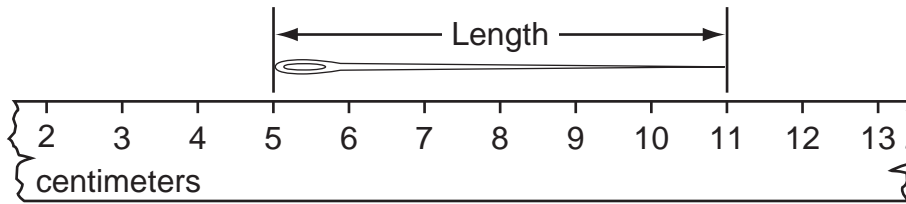
12 You may use this number line to help you answer this question.



Write a fraction that is equivalent to $\frac{1}{2}$.



- 13 Look at this needle.

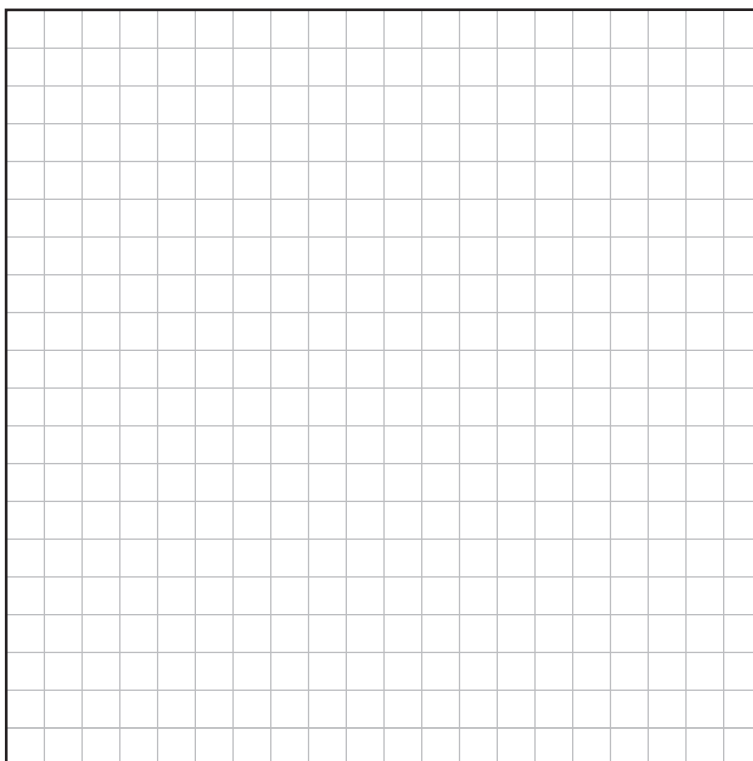


What is the length of this needle to the nearest centimeter?

_____ centimeters

14 a. Explain one way that squares and rectangles are **alike**.

b. On the grid below, draw a rectangle that is not a square.



- 15 Elke erased a number from this true number sentence.

$$11 + 9 = \text{[erased]} + 15$$

- a. What number did Elke erase?

Anna erased two numbers from this true number sentence. The two numbers Anna erased are the same.

$$\text{[erased]} + 4 + \text{[erased]} = 6 + 4$$

- b. What number did Anna erase?



- 16 Haley made this table to show the number of different-sized seashells she has in her collection.

Seashell Collection

Size	Number of Seashells
Small	3
Medium	6
Large	4

Use the information from the table to complete the bar graph below.

- Complete the scale on the bar graph.
- Draw bars on the graph to show each number of small, medium, and large seashells Haley has in her collection.

Seashell Collection

